Fiber Optics
Gen2 PLC Splitter Module

Features and Benefits

- Bi-directional performance with accurate split ratios
- Ultra-broadband range (1260 ~ 1650nm)
- Low insertion loss; excellent uniformity
- Low Polarization Dependent Loss (PDL)
- Low Polarization Mode Dispersion (PMD)
- Up to 8 input leads; up to 32 output leads
- Suitable for indoor or outdoor applications
- 2011/65/EU RoHS compliant and halogen free
- GR-326, GR-1209 and GR-1221 compliant

Overview

PPC Planar Lightwave Circuit (PLC) Splitters are manufactured using silica glass waveguide circuits and extremely precise alignment of optic fibers in very small package. They split or combine light from incoming fibers to multiple numbers of outgoing fibers. They perform uniformly over a wide spectral range, with ultra-low losses.

The GEN2 PLC Splitter Modules are enclosed in a chemically resistant housing and are compliant with Telcordia GR-326, GR-1209 and GR-1221 standards. They easily snap into and finger release from splitter slots in Opterna Fiber Distribution Hubs or Splitter Chassis (no tools required).

Technical Data

Optical Data

Parameter	Value
Operating wavelength	1260 ~ 1650nm
Return loss	≥ -55dB
Directivity	≥ -55dB
Operating temperature	-40°F to 185°F (-40°C to 85°C)
Storage temperature	-40°F to 185°F (-40°C to 85°C)
Maximum input power	500mW
Fiber type	SM G.657.B3
Connector type	SC or LC

Parameter	1x2	1x4	1x8	1x16	1x32	2x2	2x4	2x8	2x16	2x32
Insertion loss (dB)	3.8	7.1	10.4	13.6	17.0	4.2	7.6	10.8	14.0	17.5
Channel Uniformity (dB)	0.6	0.6	0.8	1.2	1.6	1.0	1.0	1.0	1.5	1.8
Polarization dependent loss (dB)	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Wavelength dependent loss (dB)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Connector loss (dB)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Dimensions (L x W x H)	4.9 x 0.6 x 2.3 inches (125 x 15 x 58 mm)									

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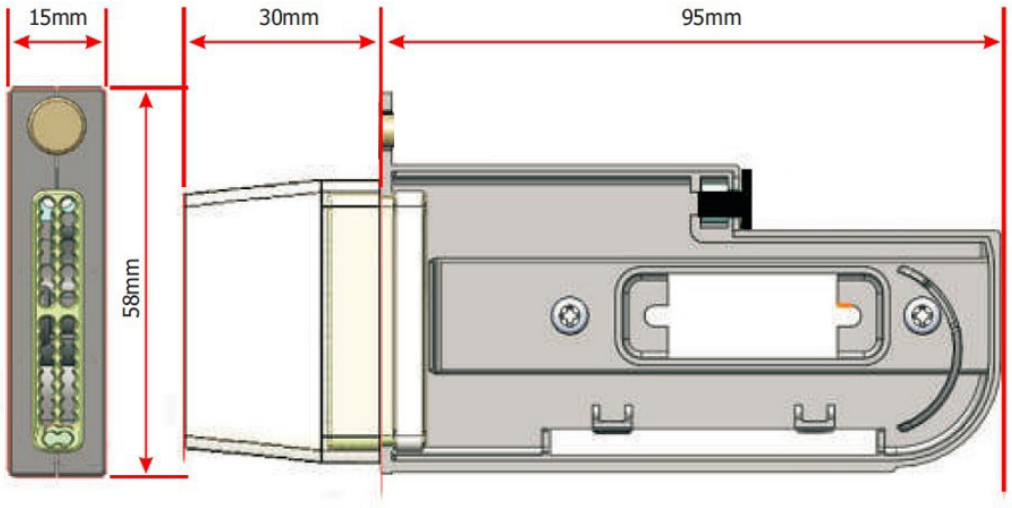
Technical Drawing



Ordering Information

G2	1	1 0 2	P	P	P	P	P	P	P	P	S C A
	3	4-6	7	8	9	10	11	12	13	14	15-17

3 — No. of PLC
- 1 = 1No.
- 2 = 2Nos.
- 3 = 3Nos.
- 4 = 4Nos.

4 to 6 — PLC configuration
- 102 = 1:2 PLC
- 104 = 1:4 PLC
- 108 = 1:8 PLC
- 116 = 1:16 PLC
- 132 = 1:32 PLC
- 202 = 2:2 PLC
- 204 = 2:4 PLC
- 208 = 2:8 PLC
- 216 = 2:16 PLC
- 232 = 2:32 PLC

7 — Fiber Type
- S = G.652D
- A = G.657A1- BIF 10mm
- N = G.657A2- BIF 7.5mm
- B = G.657B3- BIF 5mm
- G = G.655

8 — Input Entry port
- R = Rear
- F = Front

9 — Input Connector type
- 2 = LC

10 — Input Connector polish
- U = UPC
- A = APC

11 — Input cable color
- R = Red

12 — Output Connector type
- 2 = LC

13 — Output Connector polish
- U = UPC
- A = APC

14 — Output cable color
- R = Red
- B = Blue

15 to 17 — Input/Output cable length
- 005 = 0.5m
- 015 = 1.5m
- 500 = 5m

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